

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-23. cancelled

20-24. (first amended) An emission control system for a diesel engine, comprising:

20-an oxidation catalyst coupled downstream of the engine;

a particulate filter coupled downstream of said oxidation catalyst;

a lean NOx trap coupled downstream of said particulate filter; and a computer providing an indication that particulate filter regeneration is required based at least on a [measurement of an exhaust gas pressure upstream of said oxidation catalyst]signal from an exhaust gas sensor coupled only upstream of said oxidation catalyst, said computer further regenerating said particulate filter in response to said indication.

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20-25. (new) An emission control system coupled downstream of an internal combustion engine, comprising:

a first device;

a second device coupled upstream of said first device;

a sensor coupled upstream of said second device; and a computer storage medium having a computer program encoded therein, comprising:

code for regenerating said first device based on a signal provided by said sensor coupled upstream of said second device.

26. (new) The system as set forth in Claim 25 wherein the engine is a diesel engine.
27. (currently amended) The system as set forth in Claim 26 wherein said [first]second device is an oxidation catalyst.
28. (currently amended) The system as set forth in Claim 27 wherein said [second]first device is a diesel particulate filter.
29. (new) The system as set forth in Claim 28 wherein said signal provided by said sensor coupled upstream of said oxidation catalyst is indicative of an exhaust gas pressure upstream of said diesel particulate filter.
30. (new) The system as set forth in Claim 29 wherein said sensor is an absolute pressure sensor.
31. (new) The system as set forth in Claim 30 wherein said code for regenerating said particulate filter is further based on an atmospheric pressure.
32. (new) The system as set forth in Claim 31 wherein said atmospheric pressure is calculated based on a Manifold Absolute Pressure sensor reading during vehicle start.